

Title (en)

Method and apparatus for assessing the quality of and control and monitor pressure welding and fusion welding processes

Title (de)

Verfahren und Vorrichtung zur Erfassung der Qualität und zur Steuerung und Regelung von Pressschweis- und Schmelzschweisprozessen

Title (fr)

Procédé et appareil pour évaluer la qualité, contrôler et surveiller des procédés de soudage

Publication

**EP 1249298 A3 20040421 (DE)**

Application

**EP 02005357 A 20020314**

Priority

DE 10117854 A 20010410

Abstract (en)

[origin: EP1249298A2] Device for determining the quality of pressure welding and fusion welding processes, especially resistance welding processes and/or the quality of the welding joints produced, comprises a stream determination unit for determining the stream which flows through the welding point or which is correlated with the power production on the welding point, an evaluation unit connected to the stream determination unit, and a correlation unit. An Independent claim is also included for a process for determining the quality of pressure welding and fusion welding processes, especially resistance welding processes and/or the quality of the welding joints produced. Preferred Features: The correlation unit is a neuronal network, a band pass filter assigned to frequency regions or a Fourier analysis device.

IPC 1-7

**B23K 11/25**; **B23K 11/24**; **B23K 9/095**

IPC 8 full level

**B23K 11/25** (2006.01)

CPC (source: EP)

**B23K 11/257** (2013.01); **B23K 31/006** (2013.01)

Citation (search report)

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- [A] SU 1258653 A1 19860923 - VNI [SU]
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- [A] EP 0668711 A1 19950823 - DANILOV WLADIMIR [DE]
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